

**DATASHEET**

**USP5 Rabbit Polyclonal Antibody**

CAT. NO. APA14355

**KEY FEATURES**

Target	USP5	Source / Host	Rabbit
Reactivity	Human, Mouse	Clonality	Polyclonal
Applications	WB, IHC	Conjugation	Unconjugated
Form / Buffer	Liquid in 0.42% Potassium phosphate, 0.87% Sodium chloride, pH 7.3, 30% glycerol, and 0.01% sodium azide.		Storage at -20°C

**BACKGROUND**

Deubiquitinating enzyme that participates in a wide range of cellular processes by specifically cleaving isopeptide bonds between ubiquitin and substrate proteins or ubiquitin itself. Affects thereby important cellular signaling pathways such as NF-kappa-B, Wnt/beta-catenin, and cytokine production by regulating ubiquitin-dependent protein degradation. Participates in the activation of the Wnt signaling pathway by promoting FOXM1 deubiquitination and stabilization that induces the recruitment of beta-catenin to Wnt target gene promoter. Regulates the assembly and disassembly of heat-induced stress granules by mediating the hydrolysis of unanchored ubiquitin chains. Promotes lipopolysaccharide-induced apoptosis and inflammatory response by stabilizing the TXNIP protein.

**APPLICATION**

To ensure optimal assay performance, AREX recommends conducting reagent titration tailored to each testing system for optimal detection results.

WB	1:500 - 1:2000
IHC	1:50 - 1:200

\*Results are sample-specific. Please refer to your local assay conditions and test parameters for reference.

**PRODUCT OVERVIEW**

Description	Rabbit polyclonal antibody to USP5
Specificity	Recognizes endogenous levels of USP5 protein.
Antibody Type	Primary antibody
Immunogen	Recombinant fusion protein of human USP5
Purification	The antibody was purified by immunogen affinity chromatography.
Molecular Weight	Predicted: 93; Observed: 110 kD
Form/Buffer	Liquid in 0.42% Potassium phosphate, 0.87% Sodium chloride, pH 7.3, 30% glycerol, and 0.01% sodium azide.
Alternative Names	ISOT; Ubiquitin carboxyl-terminal hydrolase 5; Deubiquitinating enzyme 5; Isopeptidase T; Ubiquitin thioesterase 5; Ubiquitin-specific-processing protease 5
Gene Symbol	USP5
Entrez Gene	8078(Human); 22225(Mouse)
SwissProt	P45974(Human); P56399(Mouse)

\*AREX continuously optimizes our products. Webpage content may not reflect the latest updates. For inquiries, please contact [info@arexbio.com](mailto:info@arexbio.com) or your local distributor.

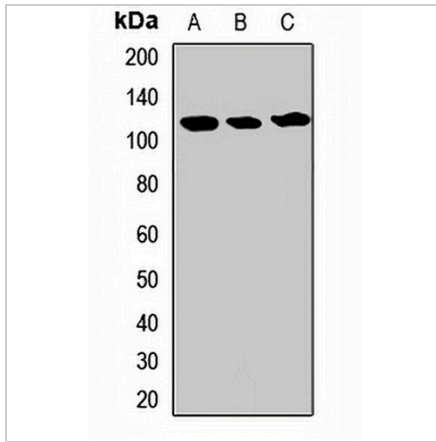
\*Clone Number, Reactivity, Source/Host and Clonality can be found in the product name and Key Features section above.

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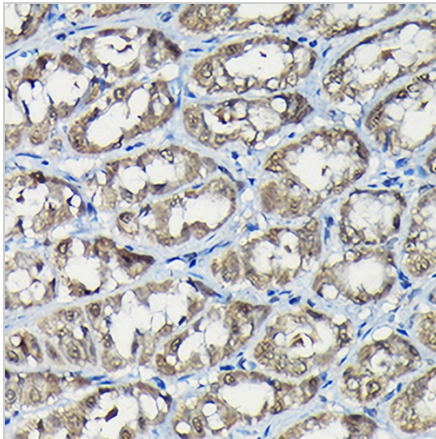
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**DATA**



Western blot analysis of USP5 expression in Hela (A), Jurkat (B), mouse kidney (C) whole cell lysates. (Predicted band size: 93; 95 kD; Observed band size: 110 kD)



Immunohistochemical analysis of USP5 staining in rat stomach formalin fixed paraffin embedded tissue section. The section was pre-treated using heat mediated antigen retrieval with sodium citrate buffer (pH 6.0). The section was then incubated with the antibody at room temperature and detected using an HRP conjugated compact polymer system. DAB was used as the chromogen. The section was then counterstained with haematoxylin and mounted with DPX.

**STORAGE**

Store at 4°C short term. For long term storage, store at -20°C, avoiding freeze/thaw cycles.

**NOTE**

For Research Use Only. Not for diagnostic, therapeutics, prophylactic or in vivo use.